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Dkt. #1014-PCT-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants BIANCHI, et al.

U.S. Serial No.: Not Yet corresponding Known, to

International Application No. PCT/IT2003/000265, filed April 29, 2003, which claims priority of U.S. Serial No. 60/393,994, filed July 3, 2002

Filed Date Herewith :

For USE OF HMGB1 IN THE TREATMENT OF TISSUE

DAMAGE AND/OR TO PROMOTE TISSUE REPAIR

Law Offices of Albert Wai-Kit Chan, LLC

World Plaza, Suite 604 141-07 20th Avenue

Whitestone, NY 11357

December 22, 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Mail Stop Patent Application

Sir/Madam:

INFORMATION DISCLOSURE STATEMENT

In accordance with their duty of disclosure under 37 C.F.R. §1.56, Applicants would like to direct the Examiner's attention to the following references which are listed below and on Forms PTO/SB/08A and PTO/SB/08B (which are attached hereto as Exhibit A), and each individual reference further attached as Exhibits 1 through 15.

- 1. PCT International Search Report for BIANCHI, et al., Int'l Application No. PCT/IT2003/000265, Filed April 29, 2003, Dated November 13, 2003. [Exhibit 1]
- 2. International Number Publication WO 00/47104 A2 for PICOWER 2000. INST MED RES, Published August 17, "Antagonists HMG1 for treating of Inflammatory Conditions". [Exhibit 2]

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3. International Publication Number WO 01/89526 Al for NORTH SHORE LONG ISLAND JEWISH REASEARCH INSTITUTE, Published November 29, 2001. "Inhibition of Inflammatory Cytokine Production by Cholinergic Agonists and Vagus Nerve Stimulation". [Exhibit 3]

- 4. FANG, et al; "The Significance of Changes in High Mobility Group-1 Protein mRNA Expression in Rats after Thermal Injury", Shock (Augusta, G.A.) United States APR, 2002; Vol. 17, No. 4, April 2002, Pgs. 329-333, XP009020804. [Exhibit 4]
- 5. FAGES, et al; "Regulation of Cell Migration by Amphoterin", Journal of Cell Science, Essex, GB; Vol. 113, No. 4, February 2000, Pages 611-620, XP001070170. [Exhibit 5]
- 6. MULLER, et al.; "The Double Life of HMGB1 Chromatin Protein: Architectural Factor and Extracellular Signal", EMBO (EUROPEAN MOLECULAR BIOLOGY ORGANIZATION) Journal; Vol. 20, No. 16, August 15, 2001, Pages 4337-4340, XP002261324. [Exhibit 6]
- 7. WANG, et al.; "HMGB1 as a late Mediator of Lethal Systemic Inflammation", American Journal of Respiratory and Critical care Medicine; Vol.164, No. 10, Part 1, November 15, 2001, Pages 1768-1773. [Exhibit 7]
- 8. WANG, et al.; "HMG-1 as a Late Mediator of Endotoxin Lethality in Mice", American Association for the Advancement of Science, U.S.; Vol. 285, July 9, 1999, Pages 248-251, XP002940163. [Exhibit 8]

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9. International Publication Number WO 02/092004 A3 for NORTH SHORE-LONG ISLAND JEWISH RESEARCH INSTITUTE, et al., Published November 21, 2002. "USE OF HMG FRAGMENTS AS ANTI-INFLAMMATORY AGENTS". [Exhibit 9]

- 10. International Publication Number WO 02/074301 A1 for Fink Mitchell P., Tracey Kevin J. (US), Ulloa Luis (US); UNIV PITTSB); Published September 26, 2002. "Method of Using Pyruvate and/or its Derivatives for the Treatment of Cytokine-Mediated Inflammatory Conditions". [Exhibit 10]
- 11. YANG HUAN, et al.; "HMGB1 as a Cytokine and Therapeutic Target", Journal of Endotoxin Research, Vol. 8, No. 6, Pages 469-472, XP009020930. [Exhibit 11]
- 12. SCAFFIDI PAOLA, et al., "Release of Chromatin Protein HMGB1 by Necrotic Cells Triggers Inflammation", NATURE (London), Vol. 418, no. 6894, July 11, 2002, Pages 191-195, XP009020930. [Exhibit 12]
- 13. International Publication Number WO 91/23611 A2 for BULLERDIEK JOERN, Published July 3, 1997. "Nucleic Acid Sequences of Genes of the High Mobility Group Proteins and Uses Thereof". [Exhibit 13]
- 14. YANG R, et al.; "Ethyl Pyruvate Modulates Inflammatory Gene Expression in Mice Subjected to Hemorrhagic Shock", American Journal of Physiology: Gastrointestinal and Liver Physiology, American Physiological Society, U.S., Vol. 283, 2002, Pages G212-G221, XP008019310. [Exhibit 14]
- 15. SIMS C A, et al.; "Ringer's Ethyl Pyrulvate Solution Ameliorates Ischemia/ Reperfusion-Induced Intestinal Mucosal Injury in Rats", Critical Care Medicine, Williams

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BIANCHI, et al. Not Yet Known Herewith

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and Wilkings Company, Baltimore, MA, U.S., Vol. 29, No. 8, 2001, Pages 1513-1518, XP008019328. [Exhibit 15]

If a telephone interview would be of assistance in advancing prosecution of the subject application, Applicants' undersigned attorney invites the Examiner to telephone him at the number provided below.

No fee is deemed necessary in connection with the filing of this IDS. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 50-1891.

Respectfully submitted,

albert wai Kit Cha

Albert Wai-Kit Chan Registration No. 36,479 Attorney for Applicants Law Offices of Albert Wai-Kit Chan, LLC World Plaza, Suite 604 141-07 20th Avenue Whitestone, New York 11357

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			Application Number	Not Yet Known	
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			First Named Inventor	BIANCHI, Marco	
STATEMENT BY APPLICANT			Art Unit	Not Yet Known	
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Sheet	11 of	2	Attorney Docket Number	1014-PCT-US	

	U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan	
		Number-Kind Code ^{2 (# known)}			Figures Appear	
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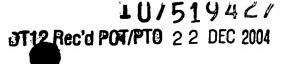
	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	-6		
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	10		
	2	WO 00/47104 A2	08-17-2000	PICOWER INST MED RES				
	3	WO 01/89526 A 1	11-29-2001	North Shore Long Island Jewish Research Institute				
	9	WO 02/092004 A2	11-21-2002	NORTH SHORE-LONG ISLAND JEWISH RES. INSTIT.				
	10	WO 02/074301 A1	09-26-2002	Fink Mitchell P.				
	13	WO 97/23611 A 2	07-03-1997	BULLERDIEK JOER				

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Signature	Considered	
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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	Application Number	Not Yet Known	
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STATEMENT BY APPLICANT	First Named Inventor	BIANCHI, Marco	
(Use as many sheets as necessary)	Art Unit	Not Yet Known	
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Sheet 2 of 2	Attorney Docket Number	1014-PCT-US	

Examiner	Cite	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	<u> </u>
Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	PCT International Search Report for BIANCHI, et al., Int'l Application No. PCT/IT2003/000265, Filed April 29, 2003, Dated November 13, 2003.	
	4	FANG, et al; "The Significance of Changes in High Mobility Group-1 Protein mRNA Expression in Rats after Thermal Injury", Shock (Augusta, G.A.) United States APR, 2002; Vol. 17, No. 4, April 2002, Pgs. 329-333, XP009020804.	
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